



## Immunohistochemistry in Cancer Diagnoses and Treatments

Guest Editor:

### **Prof. Dr. Tomonori Kawasaki**

Department of Pathology,  
Saitama Medical University  
International Medical Center,  
1397-1, Yamane, Hidaka, Saitama  
350-1298, Japan

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### **Message from the Guest Editor**

Immunohistochemistry (IHC) is an antibody-based technique that analyzes protein expressions on sections retaining tissue structure. Currently, IHC is widely used in both medical research and clinical practice to visualize target antigens in biological samples. In recent years, IHC has also been performed in the area of cytopathology, employing a liquid-based technique.

In fact, the specific objectives of IHC in the clinicopathological setting that merit mention include the confirmation of monoclonal cell growth, differentiation between benign and malignant neoplasms, proliferative potential, differentiations and functions, differential diagnoses, the estimation of the primary site in metastatic cancer of unknown origin, the identification of hormonal and growth factor receptors and the analysis of prognostic factors. Furthermore, for biomedical innovations such as drug development, IHC is employed to detect various proteins to be analyzed.

This section covers the latest topics related to IHC in each of the oncology fields, which facilitate the confirmation of diagnoses and the determination of practical therapeutic strategies.





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### Prof. Dr. Andreas Kjaer

Department of Clinical  
Physiology, Nuclear Medicine &  
PET National University Hospital,  
Rigshospitalet, University of  
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2100 Copenhagen, Denmark

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*Diagnostics* Editorial Office  
MDPI, St. Alban-Anlage 66  
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